



(19)

(11) Publication number: 20000184897 A

Generated Document.

## PATENT ABSTRACTS OF JAPAN

(21) Application number: 10322935

(22) Application date: 29.10.98

(30) Priority:	16.10.98 JP 10309550	(71) Applicant: MEIJI MILK PROD CO LTD
(43) Date of application publication:	04.07.00	(72) Inventor: HASHIMOTO SHUICHI KONISHI KATSUTOSHI YOKOYAMA KATSUO
(84) Designated contracting states:		(74) Representative:

## (54) ANTITUMOR AGENT

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain IL-6 useful as an ingredient for antitumor agents by culturing an epithelioma cell capable of producing the IL-6 in a serum-free culture medium containing IL- $\alpha$ , IFN, TNF, lipopolysaccharide, etc., and then collecting the product.

SOLUTION: This IL-6 which is a B cell-stimulating factor acting on B-cells to induce the production of an antibody and which is useful as an ingredient for antitumor agents

(51) Int'l. Cl.: C12P 21/00 A61P 35/00 A61P 43/00 A61K 31/475 A61K 31/70 A61K 33/24 A61K 38/00 A61K 38/21 A61K 45/00 C07K 14/54

comprises culturing an epithelioma cell [for example, KB cell strain (ATCC CCL 17) capable of permanently producing the IL-6] in a serum-free culture medium containing a substance selected from IL-1 $\alpha$ , IFN, TNF, and lipopolysaccharides and then collecting the IL-6 from the culture solution. The IL-6 is singly used or combined with one or more antitumor active substances such as a platinum compound, e.g. cisplatin, cytokine, e.g. TNF- $\alpha$  or IFN, antibiotics e.g. actinomycin D or mitomycin C, to obtain a highly active antitumor agent.

COPYRIGHT: (C)2000,JPO